

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): Container for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from ~~greater than 45 to 750~~ 40 to 70 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion.

Claim 2 (Canceled).

Claim 3 (Currently Amended): Container according to claim 1 wherein the gas is a hydrocarbon, ~~preferably methane~~.

Claim 4 (Original): Container according to claim 1 wherein the at least one at least bidentate organic compound is coordinately bound to said metal ion.

Claim 5 (Original): Container according to claim 1 wherein said metal ion is selected from the group consisting of elements of groups Ia, IIa, IIIa, IVa to VIIIa and IB to VIb of the periodic table of the elements.

Claim 6 (Original): Container according to claim 1 wherein the metallo-organic framework material is contacted with at least one capacity-enhancing agent selected from the group consisting of solvents, complexes, metals, metal hydrides, alloys, and mixtures of two or more thereof.

Claim 7 (Currently Amended): Container according to claim 1 wherein the bidentate compound is selected ~~among~~ from the group consisting of substituted or unsubstituted aromatic ~~polycarboxylic~~ polycarboxylic acids which may comprise one or more nuclei, and substituted or unsubstituted aromatic polycarboxylic acids which comprise at least one hetero atom and which may have one or more nuclei.

Claim 8 (Original): Container according to claim 1 wherein the metallo-organic framework material exhibits a specific surface area of more than 20 m²/g, determined via BET adsorption according to DIN 66131.

Claim 9 (Currently Amended): Storage system comprising at least one container ~~for~~ ~~uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or~~ ~~storing and releasing, or uptaking, storing and releasing at least one gas, comprising at least~~ ~~one opening for allowing the at least one gas to enter and exit or at least one opening for~~ ~~allowing the at least one gas to enter and at least one opening for allowing the at least one gas~~ ~~to exit said container, and a gas tight mechanism capable of storing the at least one gas under~~ ~~a pressure of from 1 to 750 bar inside the container, said container further comprising a~~ ~~metallo-organic framework material comprising pores and at least one metal ion and at least~~ ~~one at least bidentate organic compound which is bound to said metal ion~~ according to claim
1.

Claim 10 (Currently Amended): Fuel cell, comprising at least one container ~~for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or up taking, storing and releasing~~ at least one gas, comprising at least one opening ~~for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit~~ said container, and a gas tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion according to claim 1.

Claim 11 (Currently Amended): Method comprising ~~of using a fuel cell according to claim 10~~ for supplying power to stationary, mobile, and or mobile portable applications using a fuel cell according to claim 10.

Claim 12 (Currently Amended): Method comprising ~~of using a fuel cell according to claim 10~~ for supplying power to power plants, cars, trucks, busses, cordless tools, cell phones, and or laptops using a fuel cell according to claim 10.

Claim 13 (Currently Amended): Method ~~[[of]]~~ comprising transferring at least one gas from a storage system to a fuel cell, said storage system comprising at least one container ~~for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing~~ at least one gas, comprising at least one opening ~~for allowing the at least one gas to enter and exit or at least one opening for~~

~~allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion according to claim~~
1.

Claim 14 (Currently Amended): Method according to claim 13 wherein the ~~at least one~~ fuel cell comprises at least one container for uptaking, or storing, or releasing, or uptaking and storing, or up-taking and releasing, or storing and releasing, or uptaking, storing and releasing. at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from ~~1 to 750~~ 40 to 70 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion.

Claim 15 (Currently Amended): Method ~~[[of]]~~ comprising uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas ~~wherein the at least one gas is uptaken, or stored, or released, or uptaken and stored, or uptaken and released, or stored and released, or uptaken and stored and released by a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is preferably coordinately bound to said metal ion, wherein the metallo-organic framework~~

~~material comprising pores is comprised in at least one container comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas tight mechanism capable of storing the at least one gas under a pressure of from greater than 45 to 750 bar inside the container~~ using the container according to claim 1.

Claim 16 (Currently Amended): Method ~~[[of]]~~ comprising using a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is ~~preferably~~ coordinately bound to said metal ion, for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas in stationary, mobile, or mobile portable applications, said applications comprising a container ~~comprising said metallo-organic framework material comprising pores, said container further comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container~~ according to claim 1.

Claim 17 (Currently Amended): Method according to claim 16 wherein the applications are power plants, cars, trucks, busses, cordless tools, cell phones, ~~and~~ or laptops.

Claim 18 (Currently Amended): Container ~~having~~ according to claim 1, which container has a non-cylindrical geometry ~~for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or up-taking, storing and~~

~~releasing at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion.~~

Claim 19 (Canceled).

Claim 20 (Currently Amended): Container according to claim 18 wherein the gas is a hydrocarbon, ~~preferably methane.~~

Claim 21 (Original): Container according to claim 18 wherein the at least one at least bidentate organic compound is coordinately bound to said metal ion.

Claim 22 (Original): Container according to claim 18 wherein said metal ion is selected from the group consisting of elements of groups Ia, IIa, IIIa, IVa to VIIIa and IB to VIb of the periodic table of the elements.

Claim 23 (Original): Container according to claim 18 wherein the metallo-organic framework material is contacted with at least one capacity-enhancing agent selected from the group consisting of solvents, complexes, metals, metal hydrides, alloys, and mixtures of two or more thereof.

Claim 24 (Currently Amended): Container according to claim 18 wherein the bidentate compound is selected ~~among~~ from the group consisting of substituted or unsubstituted aromatic ~~polycarboxylic~~ polycarboxylic acids which may comprise one or more nuclei, and substituted or unsubstituted aromatic polycarboxylic acids which comprise at least one hetero atom and which may have one or more nuclei.

Claim 25 (Original): Container according to claim 18 wherein the metallo-organic framework material exhibits a specific surface area of more than $20 \text{ m}^2/\text{g}$, determined via BET adsorption according to DIN 66131.

Claim 26 (Original): Storage system comprising at least one container according to claim 18.

Claim 27 (Currently Amended): Fuel cell, comprising at least one container ~~having a non-cylindrical geometry for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion~~ according to claim 18.

Claim 28 (Currently Amended): Method ~~comprising of using a fuel cell according to claim 27 for~~ supplying power to stationary, mobile, ~~and or~~ mobile portable applications using a fuel cell according to claim 27.

Claim 29 (Currently Amended): Method ~~comprising of using a fuel cell according to claim 27 for~~ supplying power to power plants, cars, trucks, busses, cordless tools, cell phones, ~~and or~~ laptops using a fuel cell according to claim 27.

Claim 30 (Currently Amended): Method ~~[[of]] comprising~~ transferring at least one gas from a storage system to a fuel cell, said storage system comprising at least one container ~~having a non-cylindrical geometry for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion~~ according to claim 18.

Claim 31 (Currently Amended): Method according to claim 30 wherein the ~~at least one~~ fuel cell comprises at least one container having a non-cylindrical geometry for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas, comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at

least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from ~~1 to 750~~ 40 to 70 bar inside the container, said container further comprising a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is bound to said metal ion.

Claim 32 (Currently Amended): Method ~~[[of]]~~ comprising uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas ~~wherein the at least one gas is uptaken, or stored, or released, or uptaken and stored, or uptaken and released, or stored and released, or uptaken and stored and released by a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is preferably coordinately bound to said metal ion wherein the metallo-organic framework material comprising pores is comprised in at least one container having non-cylindrical geometry comprising at least one opening for allowing the at least one gas to enter and exit or at least one opening for allowing the at least one gas to enter and at least one opening for allowing the at least one gas to exit said container, and a gas-tight mechanism capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the container~~ using the container according to claim 18.

Claim 33 (Currently Amended): Method ~~[[of]]~~ comprising using a metallo-organic framework material comprising pores and at least one metal ion and at least one at least bidentate organic compound which is preferably coordinately bound to said metal ion, for uptaking, or storing, or releasing, or uptaking and storing, or uptaking and releasing, or storing and releasing, or uptaking, storing and releasing at least one gas in stationary, mobile,

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or mobile portable applications, said applications comprising a container ~~having a non-~~
~~eylindrical geometry comprising said metallo-organic framework material comprising pores,~~
~~said container further comprising at least one opening for allowing the at least one gas to~~
~~enter and exit or at least one opening for allowing the at least one gas to enter and at least one~~
~~opening for allowing the at least one gas to exit said container, and a gas tight mechanism~~
~~capable of storing the at least one gas under a pressure of from 1 to 750 bar inside the~~
~~container~~ according to claim 18.

Claim 34 (Currently Amended): Method according to claim 33 wherein the
applications are power plants, cars, trucks, busses, cordless tools, cell phones, ~~and~~ or laptops.

Claim 35 (New): Container according to claim 3 wherein the hydrocarbon is
methane.

Claim 36 (New): Container according to claim 20 wherein the hydrocarbon is
methane.